

## Product datasheet for **RC232967**

### **GALNT14 (NM\_001253826) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GALNT14 (NM_001253826) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GALNT14
Synonyms:	GalNac-T10; GalNac-T14; GALNT15
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC232967 representing NM\_001253826  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCGGCGCTGACTCGTCGGCTGGTTCTGCCAGTCTTCGGGTGCTCTGGATCACGGTGTCTGTTCT  
 TCTGGGTAACCAAGAGGAAGTTGGAGGTGCCGACGGGACCTGAAGTGCAGACCCCTAAGGTTTGGTCCTT  
 GTTTTTCAAGGTGGCTGGGATGAGCCCTTGGGCGCCTCAGGTGCCTGTATCACCCACTCCTCCCTACCAA  
 AGAGGGCATCTTCTACAGGAGGACACCTTGCTGTATGTCATTTCCCATGTCTCTTGCAAGAAGCTCAGT  
 TCCATTTGCAGACTCAGGTCTTTCTTCAAGTCAGATGCACACTGCTGGTGTATTGCACGGACCTCCACC  
 CACTAGCATCATCACCTCCACAACGAGGCCCGCTCCACGCTGCTCAGGACCATCCGCAGTGTATTA  
 AACCGCACCCCTACGCATCTGATCCGGGAAATCATATTAGTGGATGACTCAGCAATGACCTGATGACT  
 GTAACAGCTCATCAAGTTGCCAAGGTGAAATGCTTGCGAATAATGAACGGCAAGGTCTGGTCCGGTC  
 CCGGATTCGGGGCGCTGACATCGCCAGGGCACCCTCTGACTTCTCGACAGCCACTGTGAGGTGAAC  
 AGGGACTGGCTCCAGCCTCTGTTGCACAGGGTCAAAGAGGACTACACGCGGGTGGTGTGCCCTGTGATCG  
 ATATCATTAACTGGACACCTTACCTACATCGAGTCTGCCTCGGAGCTCAGAGGGGGTTTGACTGGAG  
 CCTCCACTTCCAGTGGGAGCAGCTCTCCCAGAGCAGAAGGCTCGGCGCCTGGACCCACGGAGCCCATC  
 AGGACTCCTATCATAGCTGGAGGGCTCTTCGTGATCGACAAAGCTTGGTTTGATTACCTGGGAAATATG  
 ATATGGACATGGACATCTGGGGTGGGAGAACTTTGAAATCTCCTCCGAGTGTGGATGTGCGGGGGCAG  
 CCTAGAGATCGTCCCCTGCAGCCGAGTGGGGCAGTCTCCGGAAGAAGCACCCCTACGTTTTCCCTGAT  
 GGAAATGCCAACCGTATATAAAGAACCAAGCGGACAGCTGAAGTGTGGATGGATGAATACAAGCAAT  
 ACTATTACGCTGCCCGCCATTCGCCCTGGAGAGGCCCTTCGGGAATGTTGAGAGCAGATGGACCTGAG  
 GAAGAATCTGCGCTGCCAGAGCTTCAAGTGGTACCTGGAGAATATCTACCCTGAACCTCAGCATCCCCAAG  
 GAGTCTCCATCCAGAAGGGCAATATCCGACAGAGACAGAAGTGCCTGGAATCTCAAAGGAGAACAACC  
 AAGAAACCCAAACCTAAAGTTGAGCCCTGTGCCAAGGTCAAAGGCGAAGATGCAAAGTCCCAGGTATG  
 GGCCTTACATACACCCAGCAGATCCTCCAGGAGGAGCTGTGCCTGTCAGTCATCACCTGTTCCCTGGC  
 GCCCAGTGGTTCTTGTCTTTGCAAGAATGGAGATGACCGACAGCAATGGACAAAACCTGGTCCACACA  
 TCGAGCACATAGCATCCACCTCGCTCGATACAGATATGTTCCGGTGTGGCACCGAGAACGGCAAGGA  
 AATCGTCGTAACCCATGTGAGTCTCACTCATGAGCCAGCACTGGGACATGGTGTGACTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC232967 representing NM\_001253826  
 Red=Cloning site Green=Tags(s)

MRRLTRRLVLPVFGVLWITVLLFFWVTKRKLVEPTGPEVQTPKVWSLFFKVAGMSPWAPQVPVSPTPPYQ  
 RGHLPTGGHLAVCHFPCLLQEAQFHLQTQVFLQVRCTLLVYCTDLPPTSIIITFHNEARSTLLRTIRSVL  
 NRTPTHLIREIILVDDFSDPDCKQLIKLPVKCLRNNERQGLVRSRIRGADIAQGTTLTFLDSHCEVN  
 RDWLQPLLHRVKEDYTRVPCVIDIINLDTFTYIESASELRGGFDWSLHFQWEQLSPEQKARRLDPTPEI  
 RTPIIAGGLFVIDKAWFDYLGKYDMDMDIWGGENFEISFRVWMCSSLEIVPCSRVGHVFRKHPYVFPD  
 GNANTYIKNTRKTAEVWMDEYKQYAAARPFALERPFGNVESRLDLRKNLRCQSFKWYLENIYPELSIPK  
 ESSIQKGNIRQRQKCLEQRQNNQETPNLKLSPCAKVKGEDAKSQVWAFYTYQQILQEELCLSVITLFPG  
 APVVLVLCCKNGDDRQWTKTGSHEHIAHLCLDMDFGDGTENGKEIVVNPCESSLMSQHWDVSS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

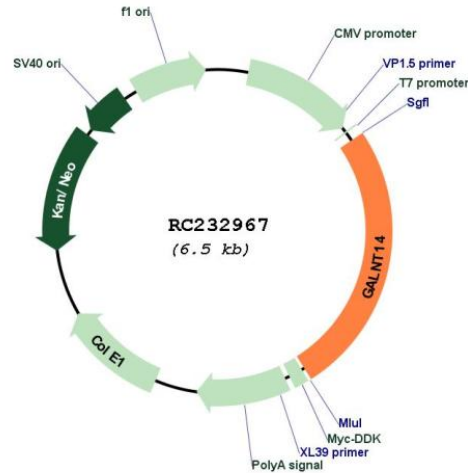
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



<b>ACCN:</b>	NM_001253826
<b>ORF Size:</b>	1671 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001253826.2</a>
<b>RefSeq Size:</b>	2750 bp
<b>RefSeq ORF:</b>	1674 bp
<b>Locus ID:</b>	79623
<b>UniProt ID:</b>	<a href="#">Q96FL9</a>
<b>Cytogenetics:</b>	2p23.1
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, O-Glycan biosynthesis
<b>MW:</b>	64.7 kDa
<b>Gene Summary:</b>	This gene encodes a Golgi protein which is a member of the polypeptide N-acetylgalactosaminyltransferase (ppGalNAc-Ts) protein family. These enzymes catalyze the transfer of N-acetyl-D-galactosamine (GalNAc) to the hydroxyl groups on serines and threonines in target peptides. The encoded protein has been shown to transfer GalNAc to large proteins like mucins. Alterations in this gene may play a role in cancer progression and response to chemotherapy. [provided by RefSeq, Jun 2016]